

Tepfer Actuaries and Administrators

145 Revere Drive
Northbrook, Illinois 60062-1555
847-509-7740 Fax: 847-509-7745 www.TepferConsulting.com

CITY OF STERLING **POLICE PENSION FUND**

ACTUARIAL VALUATION AS OF MAY 1, 2008 FOR THE FISCAL YEAR ENDING APRIL 30, 2009

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Tepfer Consulting Group, Ltd. was retained by the City of Sterling and the City of Sterling Police Pension Fund to perform an independent actuarial valuation for the Police Pension Fund. This valuation is permitted under 40 ILCS 5/22, Section 503.2.

The actuarial valuation was performed for the year ended April 30, 2009 and indicates a statutorily required contribution in accordance with 40 ILCS 5/3, Section 125 of \$304,077 or 18.14% of member payroll, a recommended minimum contribution of \$321,070 or 19.15% of payroll, and an Annual Required Contribution in accordance with paragraph 36f of Statement No. 25 of the Governmental Accounting Standards Board of \$290,249 or 17.32% of payroll. These contributions are net of contributions made by active member police officers during the fiscal year.

The results shown in this report have been calculated under the supervision of a qualified Actuary as defined in appropriate State statutes. All results are based upon demographic data submitted by the Police Pension Fund, financial data submitted by the Police Pension Fund, applications of actuarial assumptions, and generally accepted actuarial methods.

In our opinion, all calculations and procedures are in conformity with generally accepted actuarial principles and practices; and the results presented comply with the requirements of the applicable State statute, Actuarial Standards Board, or Statements of Governmental Accounting Standards, as applicable.

In our opinion, the actuarial assumptions used are reasonable, taking into account the experience of the plan and future expectations, and represent a reasonable and adequate approach to the financing of the retirement program. The costs, actuarial liabilities and other information presented in this report, in our opinion, fully and fairly disclose the actuarial position of the plan.

The undersigned certifies that the results presented in this report are accurate and correct to the best of my knowledge.

TEPFER CONSULTING GROUP, LTD.

Arthur H. Tepfer, A.S.A., M.A.A.

Enrolled Actuary #08-02352

November 24, 2008

VALUATION OBJECTIVES

The City of Sterling Police Pension Fund provides benefits to members when they retire, die, become disabled or terminate employment. As with any plan providing these types of benefits, an appropriate budgeting pattern must be established to enable appropriate funds to be accumulated to meet all payments when due. The actual cost of the plan can best be expressed in the following simplistic manner:

ACTUAL COST EQUALS

Benefits Paid

Plus

Expenses Paid

Less

Investment Income Earned

If the actual cost is incurred on a "pay as you go" basis, then the future generations of members will be paying for the benefits of current plan participants. Proper financial planning calls for budgeting the actual cost of the plan over the working lifetime of current plan membership in order to establish an equitable allocation. An actuarial valuation is the procedure used to determine an appropriate amount to be contributed to the pension plan each year in order to attain this equity.

An actuarial valuation is an estimate at a particular point in time of the predicted incidence of the future benefit costs. Since the actual cost of the plan is essentially unknown, pre-funding (budgeting for future benefit costs) requires certain assumptions about future events. Assumptions are made for such things as salary increases, terminations of participants, disablement of participants, death of participants and anticipated investment earnings. These assumptions although not affecting the actual costs of the plan will affect the incidence of predicted future costs. For proper funding, it is required that the Actuary select assumptions which are appropriate in light of the economic, demographic, and legislative environment as they relate to the pension program. The assumptions we have made concerning these future events are described more fully in Appendix 2 of this report. Based on these assumptions, a projection of future benefits was made and a current contribution level sufficient to provide the anticipated benefit payments was determined through the use of an actuarial cost method.

The actuarial cost method selected to determine plan contributions is the Entry Age Normal Cost Method. Under this actuarial cost method, ideally, the ongoing cost as a percentage of total payroll should remain fairly stable. The actuarial valuation process is usually repeated each year and is to a certain extent self-correcting. As part of this actuarial cost method, any deviation of actual experience from the chosen actuarial assumptions will be reflected in future contributions. A complete description of this actuarial cost method is explained in Appendix 4 of this report.

In this method, the normal cost is determined by assuming each member covered by the plan entered the plan under the same conditions that will apply to future plan entrants. The annual normal cost assigned to each year of an employee's career is calculated as a level percentage of his assumed earnings each year. These normal costs accumulate to the present value of the employee's benefit at his retirement age.

Under the Entry Age Normal Cost Method, the total funding of projected benefit costs is allocated between an unfunded liability, representing past benefit history, and future normal costs. This allocation is based on the assumption that the municipality will pay the normal cost for each plan year on a regular basis. Another feature of this method is that only the unfunded liability is affected by the experience of the plan, and therefore any adjustments are made in the future amortization payments.

Appendix 3 of this report contains a summary of the principal provisions of the applicable statute.

Comments on Recommended Minimum Contribution Level

Effective July 1, 1993, there were two changes to the State statute governing the determination of the required contribution to the Police Pension Fund. First, the *period* over which the amortization of any unfunded accrued liabilities is payable was extended 13 years from the year 2020 to the year 2033. Second, the method for determination of the *amount* of amortization payment was changed from a level dollar amount to an amount which will vary in dollars, but is expected to remain a level percentage of payroll. Effectively, these changes dramatically modify the funding pattern originally established and used since 1980 for plans covered under the statute. On August 5, 1995, the Circuit Court of Cook County declared the changes in the State Statute to be unconstitutional. On October 18, 1996, the Illinois Supreme Court reversed the Circuit Court decision and remanded the case back to the Court for a full hearing on the issues. The Circuit Court ultimately found the changes to be constitutionally acceptable.

Despite the statutory language which may require an application of this liberalized approach, we feel that funding under the new method severely undermines the benefit security of the retirement system and transfers the payment for currently earned pensions to future generations of taxpayers. For these reasons, our valuation report presents a recommended minimum contribution which will operate to maintain the fundamental fiscal soundness of the retirement program, although a statutorily required contribution has also been calculated. The calculation of the recommended minimum contribution is based upon an amortization payment of any unfunded accrued liabilities as a level dollar amount over 40 years from July 1, 1993, the effective date of P.A. 87-1265. The calculation of the statutorily required contribution is based upon an amortization payment of any unfunded accrued liabilities as a level percentage of payroll over 40 years from July 1, 1993, the effective date of P.L. 87-1265.

Although, I sincerely do not agree with the method of determining the amortization of the unfunded accrued liability under the "new method" (I cannot and will not condone the calculation of the payment as a level percentage of payroll); nonetheless, I would be remiss if I did not advise my funds as to a "statutory" acceptable calculation under the State law. I patently consider the calculation to be actuarially unsound for funding of municipal retirement programs.

Effective for periods beginning after June 15, 1996, the Governmental Accounting Standards Board has issued Statement No. 25 "Financial Reporting for Defined Benefit Pension Plans and Note Disclosures for Defined Contribution Plans". This Statement establishes a financial reporting framework for defined benefit pension plans that distinguishes between two categories of information: (a) current financial information about plan assets and financial activities and (b) actuarially determined information, from a long-term perspective, about the funded status of the plan and the progress being made in accumulating sufficient assets to pay benefits when due. The calculation of the Annual Required Contribution (ARC) is described in paragraph 36f of the Statement and is based upon an amortization payment of any unfunded accrued liabilities as either a level dollar amount or a level percentage of total payroll over a maximum of 40 years from the effective date of the Statement. Any significant increase in the total unfunded actuarial liability resulting from a change in actuarial methodology should be amortized over a period not less than 10 years.

Actuarial experience since the last actuarial valuation

As part of the actuarial valuation process, it is helpful to examine the actual experience of the fund as compared to the experience which is expected by the actuarial assumptions. The measurement of any deviations of actual to expected experience is commonly referred to as a "Gain and Loss Analysis". In performing this analysis, the actuary analyzes each actuarial assumption used in the valuation process. It is highly unlikely that actual experience will follow expected experience on a year-by-year basis. It is hoped that over the long term, if the actuarial assumptions are "reasonable", the total gains and losses will offset each other.

A "gain and loss analysis' is a useful tool to examine whether the actuarial assumptions used to determine the municipal tax levy are suitable. Care must be taken in placing too much credibility in a short-term analysis as the assumptions are more appropriately measured over the long term. Nonetheless, an annual evaluation of the actuarial assumptions will assist in identifying trends which, if unnoticed, can lead to inappropriate conclusions. When these trends are recognized, it is the actuary's responsibility to modify one or more of the assumptions to better anticipate future experience.

Some assumptions are easier to measure than others. In small plans, credible analysis can generally be made regarding the economic (financial) assumptions. These primarily include investment and salary increase assumptions. Unfortunately, it is often impossible to establish credible long term analysis of demographic assumptions (rates of termination, disability, retirement and mortality). Therefore, in choosing demographic assumptions, the actuary generally relies upon standardized tabular assumptions modified only by fund-specific characteristics.

The actuarial gain and loss analysis for the current year is presented in Exhibit 3-C and 3-D of the report. Exhibit 3-C shows the impact of the actuarial gains or losses on the statutorily required contribution through a reconciliation of this contribution from the end of the prior valuation year to the end of the current valuation year. Exhibit 3-D derives the actuarial gain or loss in total as well as separating the individual financial and demographic components.

The overall experience gain (loss) for the year was \$ (427,827) or 3.16% of the accrued liability at the beginning of the plan year. The dollar amount for the plan's current statutorily required contribution is 140.74% of the prior year's contribution. When measured as a percentage of payroll, the contribution level has changed from 13.81% to 18.14%.

Factors Influencing the Choice of Actuarial Assumptions

As part of the consulting process, it is our policy to talk with selected members of the Board of Trustees for the **City of Sterling Police Pension Fund** in order to obtain information which will enable the Actuary to properly choose the actuarial assumptions which are most appropriate for the current cost determination for the pension fund.

Prior to the meeting, statistics are compiled concerning historical investment returns, salary increases, retirement incidence and other factors which are influential in the actuarial assumption setting process. Based upon an analysis of the specifics as they relate to the **City of Sterling Police Pension Fund** and a general understanding of the inter-relationships of the actuarial assumptions, the Board and the Actuary reach a mutual agreement as to the assumptions which will be used in the current actuarial valuation.

Whenever appropriate, the actuarial assumptions used by the State Actuary are relied upon as a starting point. However, in order to make the calculations more "Sterling-sensitive", the analysis of the actual historical performance is carefully examined.

Demographic considerations

For this valuation it was noted that the force continues to remain reasonably stable as to its size and demographic composition, although there was a slight increase in the size of the active group with the hiring of 1new officer and an increase in the inactive group of 1 participant. It was observed that the number of inactive participants as compared to active participants in the Fund is at the State averages (approximately 42% of the total participants are inactive); on a liability basis the Fund also below the State averages. Approximately 47% of the Fund's total liability is attributed to inactive participants compared to a State average of about 52%.

We are monitoring the retirement patterns of the active employees to determine if a modification of the retirement rates is needed. The average age and service of the active participating group is at the State average. This has a tendency to lower the <u>ongoing</u> cost of funding the pension plan. This is a normal pattern for mature funds as participants retire and are replaced by younger officers with no initial liabilities. <u>There is no cause for concern given the strong funding levels.</u> There are 4 active officers who are currently eligible to retire—about 13% of the active group. The fund is continuing to move into a more demographically stable phase.

Financial considerations

The rate of return during the 2008 year was 1.66%. Unfortunately, this investment return has slowed the pattern of rapid funding as in prior years as municipal contributions and contributions by active officers are now being used to pay current expenses. These funds are generally the major source of new funds for investment purposes to accumulate reserves. Please refer to the chart in Exhibit 2 which illustrates the pattern of growth. Comparative salary increases and the greater than average rates of investment return over the past years indicate that the general financial assumptions used by the State actuary continue to be inappropriate for this Fund.

The funds continue to earn acceptable rates of return over the long term. As shown in Exhibit 5-C of our report, the composite rate of return for the fund since 1999 is 5.13%, but 7.03% since 1988. The Trustees are to be commended on the investment performance.

At the request of the Board, the actuary was asked to determine the aggregate actuarial assumptions. Based upon the comparative rate of funding (approximately 88%) as well as a comparison of actual rates of investment return to salary increases, we have determined that a continuation of the assumed investment return rate was appropriate as a long-term assumption to be used in determining the funding requirements for the year May 1, 2008 to April 30, 2009. For this valuation, an interest rate of 8% was chosen to reflect the portfolio composition, investment philosophy and historical performance as compared to other funds in the State. This rate includes an inflation component of $2\frac{1}{2}$ %. As pointed out last year, the Trustees should be aware that this is a reasonably aggressive assumption regarding investment returns and we should consider examining a lower ongoing investment return. We will continue to monitor the investment experience with an eye toward lowering the return assumption by $\frac{1}{4}$ % point.

Furthermore, as a result of a recent study performed by our firm, we are continuing the actuarial assumption with regard to salary increases for active participants to a table which is more representative of increases in the Downstate system. The results of this study indicate that salaries increase more rapidly in the earlier years of employment and level off in the later years. The prior assumption anticipated a constant annual increase in salaries and we believe that in our current environment and in analyzing the actual salary growth in your fund, this approach is inappropriate. Consistent with the investment assumption, these tabular rates include an inflation component of $2\frac{1}{2}$ %.

As part of our continuing process to update assumptions to a more realistic approach, we have chosen to implement a change from the UP-84 mortality table to a blue collar modification of the recently published RP-2000 Mortality Table to better reflect recent mortality improvements from those studied in the 1980's. The use of this assumption for all lives should stabilize the demographic experience. The overall impact of this assumption change will produce a slightly larger recommended municipal contribution than in prior years. This increase is about 11% and is a one time adjustment.

The remaining demographic actuarial assumptions used for this valuation represent no change from those used in the prior valuation performed by our firm. These include, as a result of the publication of a recent independent study analyzing demographic experience among police and fire pension funds in the Downstate System, changes in the retirement, disability and withdrawal assumptions, as well as, stated above, the use of a more modern mortality table from those used by the State Actuary.

Our current financial assumptions, including the continued use of the actuarial value of assets instead of market value, indicate no change from the prior year. Exhibit 5-A of our report presents a derivation of this value. As part of this method assets are adjusted every three years to assure that they fall within a 10% corridor of market value. There was a slight downward adjustment during the current year. The next adjustment is scheduled for the actuarial valuation for the year beginning May 1, 2011.

Comparison with Other Funds

We are including a comparison to certain State averages which may prove helpful in assessing how the fund compares to similarly situated programs.

	Sterling (2008)	State*
Funded Ratio	88.52%	61.50%
Percentage of Liability for Inactives	46.99%	51.50%
Percentage of Total Assets for Inactives (market basis)	58.39%	83.74%

^{*} Based upon published reports for FYE 2006

Examination should be focused on the funding progress contained in Exhibit 2 of our report,

Thirty-year Payout Projections

Exhibit 5D presents an illustration of projected payments from the Trust Fund for a 30-year period commencing with the valuation date. These projections are based upon the actuarial assumptions selected for the fund concerning death, disability and retirement actually occurring. Care should be taken in interpreting or relying on these results—particularly for Funds with fewer than 50 participants. The credibility of this type of projection is rarely realized beyond 10 years.

RESULTS OF VALUATION

The following exhibits present the results of our actuarial valuation of the City of Sterling Police Pension Fund for the fiscal year May 1, 2008 through April 30, 2009.

Exhibit 1 indicates that the recommended minimum contribution from the City is \$321,070 or 19.15% of total participating payroll. Under the actuarial cost method selected, this percentage of payroll should remain reasonably level over the lifetime of the plan.

Exhibits 2 and 3 provide specific information used to develop the recommended minimum and statutorily required City contribution.

Exhibit 4 presents a brief description of the demographic characteristics of the current member group.

Exhibit 5 shows information relating to the pension assets.

Appendix 1 provides information in accordance with the Governmental Accounting Standards Board relating to financial disclosure of pension costs in the auditor's report.

GENERAL VALUATION RESULTS FOR FISCAL YEAR MAY 1, 2008 THROUGH APRIL 30, 2009

i.	Entry Age Normal Cost:	\$ 310,607
2.	Unfunded Actuarial Accrued Liability (or Surplus):	1,551,881
3.	Actuarial Value of Assets:	11,967,931
4.	Annual Salaries of Active Police Officers:	1,608,965
5.	Recommended Minimum Contribution from the City:	321,070
	Contribution Percentage:	19.15%*

^{*} Projected for the fiscal year ending April 30, 2009.

SUMMARY OF SPECIFIC VALUATION RESULTS

		Number	Actuarial Present Value of Projected Benefits	Entry Age Normal Cost
1.	Active Police Officers:	30		
	Retirement Pension:		\$8,335,785	\$211,982
	Survivors Pension:		247,033	13,037
	Disability Pension:		915,500	56,319
1/	Withdrawal Pension:		259,838	29,269
	TOTAL	30	\$9,758,156	\$310,607
2.	Inactive Police Officers and Su	rvivors:		
	Normal Retirees:	16	\$5,618,482	
	Alternate Payees:	0	0	
	Widows (Survivors):	5	734,837	
	Children (Survivors):	0	0	
	Disabled Retirees:	0	0	
	Deferred Vested:	0	0	
	Terminated/Separated:	_0	0	
TOTAL		21	\$6,353,319	

SUMMARY OF SPECIFIC VALUATION RESULTS (Continued)

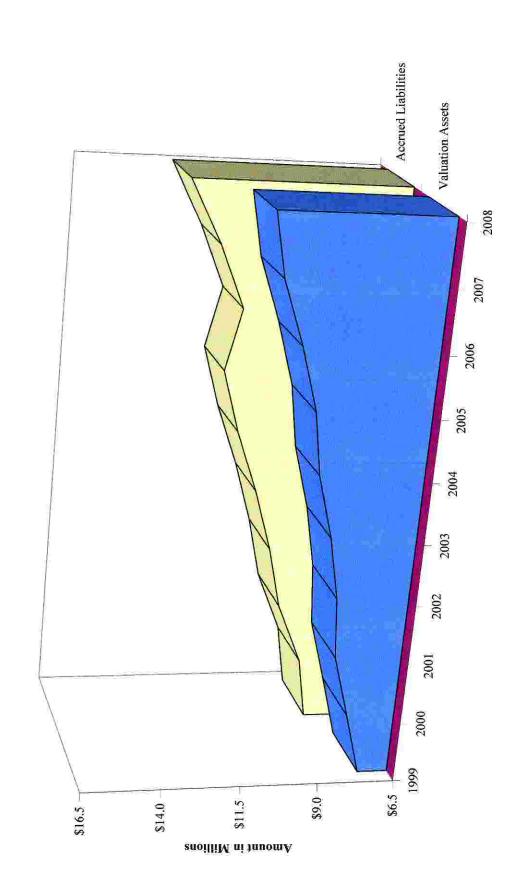
3.	Total Actuarial Present Value of Projected Benefits:	\$16,111,475
4.	Actuarial Present Value of Future Normal Costs:	2,591,663
5.	Entry Age Accrued Liability: [(3) - (4)]	13,519,812
6.	Actuarial Value of Assets:	11,967,931
7.	Unfunded Actuarial Accrued Liability (or Surplus): [(5) - (6)]	1,551,881
8.	Funded Ratio Percentage: [(6) ÷ (5)] x 100	88.52%

HISTORY OF FUNDED PERCENTAGES

For the Year beginning May 1	Valuation Assets	Accrued Liabilities	Funded Percentage
2008	\$11,967,931	\$13,519,812	88.52%
2007	11,537,623	12,432,905	92.80%
2006	10,778,895	11,544,004	93.37%
2005	10,159,721	11,967,912	84.89%
2004	9,832,522	11,342,940	86.68%
2003	9,248,119	10,561,600	87.56%
2002	8,834,759	9,901,011	89.23%
2001	8,652,557	9,383,686	92.21%
2000	8,053,832	8,477,880	95.00%
1999	7,475,550	8,113,270	92.14%

The chart on the following page presents a progression of these percentages in graphical form.

COMPARISON OF ASSETS AND LIABILITIES



DEVELOPMENT OF RECOMMENDED MINIMUM CITY CONTRIBUTION

		Fiscal Year May 1, 2008 through April 30, 2009
1.	Entry Age Normal Cost:	\$310,607
2.	Recommended Minimum Payment to Amortize Unfunded Accrued Liability as a level dollar amount over 25.16632 Years from May 1, 2008:	134,317
3.	Interest on (1) and (2):	35,594
4.	Credit for Surplus:	0
5.	Total Recommended Minimum Contribution for Fiscal Year 2009: $[(1) + (2) + (3) + (4)]$	480,518
6.	Active Member Contributions (9.91% of Salaries):	159,448
7.	Net Recommended Minimum City Contribution: [(5) - (6)]	321,070

DEVELOPMENT OF STATUTORILY REQUIRED CITY CONTRIBUTION (NOTE THAT THIS CONTRIBUTION CALCULATION IS NOT RECOMMENDED)

		Fiscal Year May 1, 2008 through April 30, 2009
1.	Entry Age Normal Cost:	\$310,607
2.	Minimum Payment to Amortize Unfunded Accrued Liability as a level percentage of payroll over 25.16632 Years from May 1, 2008:	118,583
3.	Interest on (1) and (2):	34,335
4.	Credit for Surplus:	0
5.	Total Statutorily Required Contribution for Fiscal Year 2009: $[(1) + (2) + (3) + (4)]$	463,525
6.	Active Member Contributions (9.91% of Salaries):	159,448
7.	Net Statutorily Required City Contribution: [(5) - (6)]	304,077

RECONCILIATION OF THE CHANGE IN THE STATUTORILY REQUIRED CITY CONTRIBUTION

1.	Statutorily Required Contribution for Year ending April 30, 2008:	\$216,056
2.	Increase in Normal Cost and Amortization Payment due to anticipated pay changes:	9,019
3.	Increase/(Decrease) in Normal Cost resulting from actual pay changes:	3,955
4.	Effect of Asset Smoothing:	14,600
5.	Increase/(Decrease) resulting from changes in assumptions:	23,786
6.	Increase/(Decrease) resulting from other demographic and financial sources (retirements, deaths, new entrants, salary changes, etc.):	36,661
7.	Statutorily Required Contribution for Year ending April 30, 2009:	\$304,077

DERIVATION OF EXPERIENCE GAIN(LOSS) AS OF MAY 1, 2008

1.	Unfunded Actuarial Accrued Liability at May 1, 2007:	\$895,282
2.	Normal Cost Due at May 1, 2007:	283,281
3.	Interest on (1) and (2) to May 1, 2008 (at 8.00% per year):	94,285
4.	Contributions made for the prior year with interest to May 1, 2008:	460,074
5.	Expected Unfunded Actuarial Accrued Liability at May 1, 2008 Before Assumption Changes [(1) + (2) + (3) - (4)]:	812,774
6.	Change in Unfunded Actuarial Accrued Liability due to Assumptions Change at May 1, 2008:	311,280
7.	Expected Unfunded Actuarial Accrued Liability at May 1, 2008 [(5) + (6)]:	1,124,054
8.	Actual Unfunded Actuarial Accrued Liability at May 1, 2008:	1,551,881
9.	Gain (Loss) for the prior Plan Year [(7) – (8)]:	\$ (427,827)

DERIVATION OF EXPERIENCE GAIN(LOSS) AS OF MAY 1, 2008

The experience gain (loss) reported above is the net result of the following:

1. FINANCIAL SOURCES

	a)	Investment experience (based upon market value of assets):	\$ (817,853)
	b)	Contribution experience:	35,975
	c)	Benefit Payments experience:	(38,306)
	d)	Salary increases (greater)/lower than expected:	(44,195)
		Total from Financial Sources:	(864,379)
2.		<u>DEMOGRAPHIC SOURCES</u> Mortality, retirement, disability, termination, etc.:	(192,559)
3.		ACTUARIAL ADJUSTMENTS Market value adjustment for asset smoothing, including expenses	629,111
4.		GAIN (LOSS) ALL SOURCES Total Gain (Loss) for the prior Plan Year [(1) + (2) + (3)]	\$ 6 (427,827)

SUMMARY OF DEMOGRAPHIC INFORMATION AS OF MAY 1, 2008

		Projected
		Annual Salaries
	Number	(Fiscal Year 2009)
Antive Police Officers	20	Ø1 600 065
Active Police Officers:	30	\$1,608,965

	Number	Total Monthly Benefits
Normal Retirees:	16	\$ 40,408
Alternate Payees:	0	0
Survivors (Widows):	5	8,233
Survivors (Children):	0	0
Disabled Retirees:	0	0
Deferred Vested:	0	Ó
Terminated/Separated:	0	0 *

The actuarial valuation was performed as of May 1, 2008 to determine contribution requirements for fiscal year 2009.

^{*} Return of Contributions

AGE AND SERVICE DISTRIBUTION

Attained Age			ပ	COMPLETED YEARS OF SERVICE	ED YEAR	SOFSER	WICE				Average Salaries
1-0	24	5-9	10-14	15-19	20-24	25-29	30-34	35-39	1 0 4	Total	
										0	1
-	8									ო	38,389
-	je.									9	40,250
ST. 184	-		-							7	46,438
		3	2							Ŋ	55,302
		=	. 	က						w	59,620
- N					ಶ	*=				'n	58,491
		1 1 1				6				ю	68,377
V = UF										H	87,213
										0	
										0	
TOTAL 2	∞	4	4	ю	4	4		0	0	30	53.632

Age = 37.83 Years

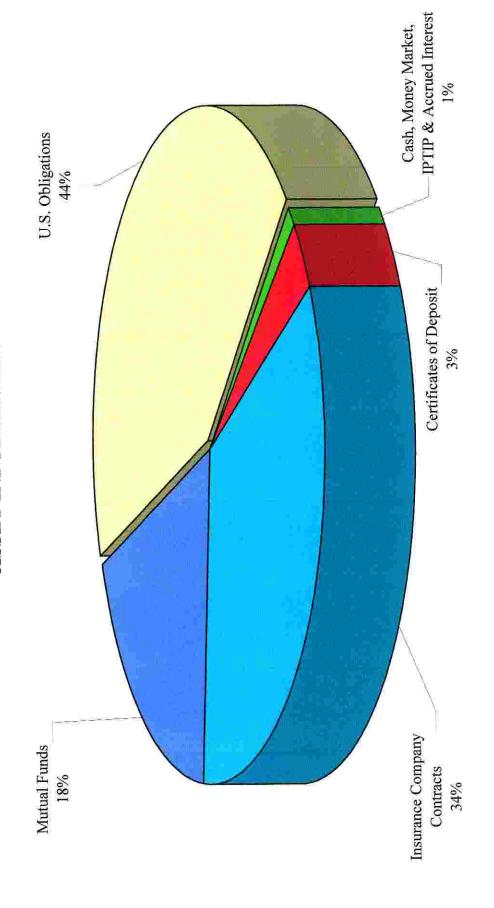
Service = 13.16 Years

ASSET INFORMATION

Cash, Money Market, IPTIP	\$94,363
Certificates of Deposit	373,123
State and Local Obligations	0.
U.S. Government Obligations	4,659,595
Insurance Company Contracts	3,712,756
Pooled Investment Accounts	0
Mutual Funds	2,005,362
Common Stock	0
Preferred Stock	Ŏ:
Taxes Receivable	0
Accrued Interest	34,738
Other Receivables	0
Net Liabilities	Q
Net Present Assets at Market Value	\$10,879,937

The chart on the following page shows the percentage of invested assets.

ASSET INFORMATION



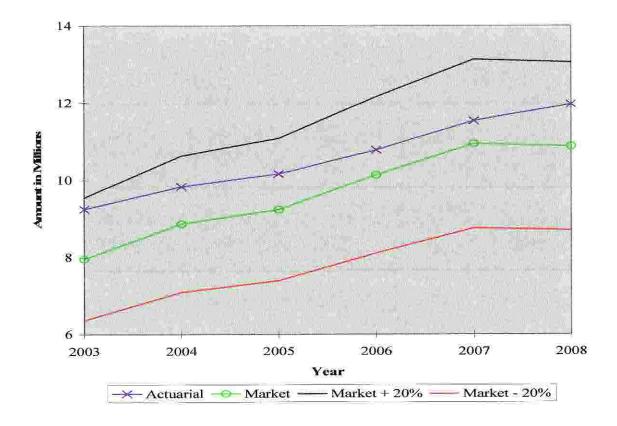
DEVELOPMENT OF ACTUARIAL VALUE OF ASSETS

1.	Actuarial Value of Assets, May 1, 2007	\$11,537,623
2.	Contributions Received During 2007-2008	443,801
3.	Benefit Payments and Expenses Made During 2007-2008	734,761
4.	Assumed Interest at 8.00% on (1), (2) and (3)	912,341
5.	Preliminary Actuarial Value of Assets: $[(1) + (2) - (3) + (4)]$	12,159,004
6.	Market Value, May 1, 2008	10,879,937
7.	Preliminary Adjustment Account:	
	 a) Amount: [(5) - (6)] b) Percentage: [(7a) ÷ (6) x 100%] 	1,279,067 11.76%
8.	Final Adjustment Amount	
	a) Amountb) Percentage	1,215,289 11.17%
9.	Final Actuarial Value of Assets, May 1, 2008: [(6) + (8a)]	12,095,226
10.	Three-Year Adjustment Amount (Effective May 1, 2008-Next Adjustment May 1, 2011)	(127,295)
11.	Final Actuarial Value of Assets, May 1, 2008	\$ 11,967,931

ASSET HISTORY

For the Year	Actuarial	Market
beginning May 1	Value of Assets	Value of Assets
2008	\$11,967,931	\$10,879,937
2007	11,537,623	10,942,076
2006	10,778,895	10,132,598
2005	10,159,721	9,236,110
2004	9,832,522	8,862,120
2003	9,248,119	7,956,056

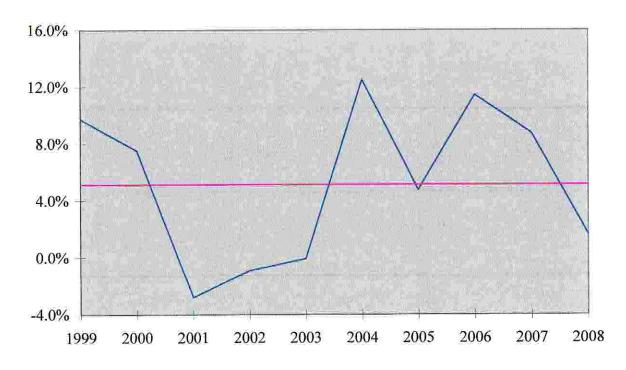
The chart below presents a comparison between the Actuarial Value of Assets and the Market Value of Assets for the current year and the five preceding years. The chart also illustrates the corridor 20% above and 20% below the Market Value of Assets.



ANALYSIS OF INVESTMENT RETURN

Fiscal Year	Annual Rate
Ending April 30	of Return
2008	1.66%
2007	8.73
2006	11.45
2005	4.77
2004	12.50
2003	-0.07
2002	-0.91
2001	-2.79
2000	7.52
1999	9.75
Composite	
1999-2008	5.13%

The following chart presents a progression of these percentages in graphical form.



THIRTY - YEAR PROJECTION OF PAYMENTS

		•		100001111				
		-Payouts from Active Gr	티			#3		Total
Year	Lump Sum Deferr	Deferred Pension	Death	Retirement	Disability	Retired Group D	Deferred Pensioners	
2008		0	5,038	56,492	6,592	583,712	0	655,692
2009	5,465	0	6,835	124,283	13,180	580,280	0	730,043
2010	6,543	0	6,934	182,802	18,887	573,448	0	788,614
2011	6,352	0	8,790	225,081	24,674	565,674	Õ	830,571
2012	6,122	0	10,975	277,024	30,219	556,965	0	881,305
2013	2,304	0	12,719	318,109	35,714	547,307	O	916,153
2014	1,432	0	14,772	372,242	41,244	536,574	0	966,264
2015	0	0	16,263	426,078	46,817	524,711	0	1,013,869
2016	0	0	17,999	491,276	52,633	511,705	0	1,073,613
2017	0	0	19,375	546,669	58,273	497,527	0	1,121,844
2018	0	0	21,197	586,022	64,044	482,210	0	1,153,473
2019	0	0	22,429	621,912	70,077	465,790	0	1,180,208
2020	0	0	24,091	666,692	75,903	448,349	0	1,215,035
2021	0	0	25,220	731,737	81,043	429,984	0	1,267,984
2022	0	0	26,730	804,823	86,590	410,814	Ó	1,328,957
2023	0	0	27,752	850,902	91,406	390,980	0	1,361,040
2024	0	0	29,155	887,647	97,182	370,667	0	1,384,651
2025	0	0	30,028	938,620	103,003	350,040	0	1,421,691
2026	0	0	31,237	978,544	109,714	329,259	0	1,448,754
2027	0	0	31,936	1,014,220	114,847	308,484	0	1,469,487
2028	0	0	32,937	1,062,561	118,829	287,839	Ö	1,502,166
2029	0	0	33,451	1,093,339	122,650	267,390	0	1,516,830
2030	0	0	34,209	1,142,890	127,818	247,203	0	1,552,120
2031	0	0	34,566	1,170,989	134,688	227,411	0	1,567,654
2032	0	0	35,005	1,225,622	142,178	208,133	0	1,610,938
2033	0	0	35,106	1,258,609	145,130	189,428	0	1,628,273
2034	0	0	35,302	1,290,861	147,664	171,309	0	1,645,136
2035	0	0	34,858	1,333,757	151,545	153,822	0	1,673,982
2036	0	0	34,662	1,352,783	152,927	137,021	0	1,677,393
2037	0	0	34,116	1,367,616	153,217	120,971	0	1,675,920

GASB STATEMENT NO. 25 DISCLOSURE INFORMATION

DEVELOPMENT OF THE ANNUAL REQUIRED CONTRIBUTION OF THE MUNICIPALITY

		Fiscal Year May 1, 2008 through April 30, 2009
1.	Entry Age Normal Cost	\$310,607
2,	Actuarial Accrued Liability	13,519,812
3.	Actuarial Value of Assets	11,967,931
4.	Unfunded Actuarial Accrued Liability	1,551,881
5.	Minimum Payment to Amortize Unfunded Actuarial Accrued Liability Over 40 Years from Effective Date of Application of GASB 25 (29 years remaining)	139,090
6.	Total Annual Required Contribution for Fiscal Year April 30, 2009: [(1) + (5)]	449,697
7.	Active Member Contributions (9.91% of Salaries):	159,448
8.	Annual Required Contribution (ARC) payable at the beginning of the current fiscal year: [(6) - (7)]	290,249

GASB STATEMENT NO. 25 DISCLOSURE INFORMATION (Continued)

NOTES:

- The Annual Required Contribution as of May 1, 2008 has been determined under the Governmental Accounting Standards Board Statement No. 25 and is required disclosure for the fiscal year ending April 30, 2009. The Entry Age Normal Cost and the Actuarial Accrued Liability were determined using the Entry Age Normal Actuarial Cost Method.
- The Entry Age Normal Cost has been determined as a level percentage of projected payroll of
 the active members of the group. The amortization method for the Unfunded Actuarial
 Accrued Liability is determined as a level dollar amount over the closed Maximum
 Amortization Period as defined in Governmental Accounting Standards Board Statement No.
 25.
- All values were determined on the basis of the actuarial assumptions and methods as more fully described in Appendix 2 of this report.

ACTUARIAL ASSUMPTIONS

Mortality

Active Lives

RP-2000 Combined Healthy Mortality Table (male) with blue collar adjustment and with a 200% load for participants under age 50 and 125% for participants age 50 and over. Five percent (5%) of deaths amongst active police officers are assumed to be in the performance of their duty.

Non-Active Lives

RP-2000 Combined Healthy Mortality Table (male) with blue collar adjustment and with a 200% load for participants under age 50 and 125% for participants age 50 and over.

Investment Return

8.00% per annum, compounded annually (net of expenses).

Termination

Illustrative rates of withdrawal from the plan for reasons other than death or disability are as follows:

Age	Rate of Withdrawal
<u>Age</u> 25	.0734
30	.0416
35	.0223
40	.0119
45	.0102
50	

It is assumed that terminated police officers will not be rehired.

Salary Increases

Representative values of assumed salary increases are as follows:

Age	Increase %
<u>Age</u> 25	4.8611
30	2.9848
35	2,0341
40	1.5239
45	1.3083
50	1.1846
55	1.1220

An additional inflation allowance of 2.50% per year is added to the above.

ACTUARIAL ASSUMPTIONS (Continued)

Disability Rates

Incidence of disability amongst police officers eligible for disability benefits:

<u>Age</u>	Rate
25	.0013
30	.0026
35	.0044
10	.0071
15	.0108
50	.0159

15% of disabilities amongst active police officers are assumed to be in the performance of their duty.

Retirement Rates

Retirements are assumed to occur between the ages of 50 and 69 in accordance with the following table:

Age	Rate of Retirement	Age	Rate of Retirement
50	.36	60	.22
51	.22	61	.30
52	.18	62	.39
53 54	.19	63	.48
54	.19	64	.57
55	.20	65	.65
56	.20	66	.74
57	.20	67	.83
58	.21	68	.91
59	.21	69	1.00

ACTUARIAL ASSUMPTIONS (Continued)

Expenses

None assumed.

Marital Status

85% of police officers are assumed to be married.

Spouse's Age

Wives are assumed to be 3 years younger than their husbands.

Actuarial Asset Basis

A preliminary actuarial value of assets is calculated by accumulating the prior year's actuarial value with adjustments for contributions and benefit payments at the valuation interest rate. The market value is subtracted from the preliminary actuarial value. The difference, the preliminary adjustment account, is divided by the market value. Then using the following table, the final actuarial value of assets is calculated by adding the final adjustment account to the market value.

Percentage of Market Value (Plus or Minus)	
Preliminary Adjustment Account	Final Adjustment Account
0% to 10%	Same as preliminary adjustment account
10% to 20%	10% plus 2/3 of the excess over 10%
20% to 30%	16 2/3% plus 1/3 of the excess over 20%
Over 30%	20%

Effective May 1, 2011, a 3-year cumulative analysis of the actuarial value of assets will be made. If the final actuarial value differentiates by more than 10% (plus or minus) from the market value of assets, the final actuarial value of assets will be further adjusted to equal 90% or 110% of the market value of assets.

Actuarial Cost Method:

Entry Age Normal Cost

SUMMARY OF PRINCIPAL PLAN PROVISIONS

Definitions

Police Officer (3-106): Any person appointed to the police force and sworn and commissioned to perform police duties.

Persons excluded from Fund (3-109): Part-time officers, special police officer, night watchmen, traffic guards, clerks and civilian employees of the department. Also, police officers who fail to pay the required fund contributions or who elect the Self-Managed Plan option.

Creditable Service (3-110): Time served by a police officer, excluding furloughs in excess of 30 days, but including leaves of absences for illness or accident and periods of disability where no disability pension payments have been received and also including up to 3 years during which disability payments have been received provided contributions are made.

Pension (3-111)

Normal Pension Age

Age 50 with 20 or more years of creditable service.

Normal Pension Amount

50% of annual salary held in the year preceding retirement; or for persons terminating on or after July 1, 1987, the annual salary held on the last day of service, whichever is greater plus 2% of such annual salary for service in excess of 20 years (total maximum 20%), plus 1% of such annual salary for additional service in excess of 30 years (total maximum 5%); or for persons terminating on or after January 1, 1999, 50% of the greater of the annual salary held in the year preceding retirement or the annual salary held on the last day of service, plus 2½% of such annual salary for service from 20 to 30 year (maximum 25%)].

Minimum Monthly Benefit: \$1,000

Maximum Benefit Percentage: 75% of salary

Mandatory Retirement Pension Date

Mandatory retirement due to age by law with between 8 and 20 years of creditable service.

Mandatory Pension Amount

 $2\frac{1}{2}$ % of annual salary held in the year preceding retirement times years of creditable service, or for persons terminating on or after July 1, 1987, $2\frac{1}{2}$ % of annual salary held on the last day of service times years of credible service, whichever is greater.

SUMMARY OF PRINCIPAL PLAN PROVISIONS (Continued)

Termination Retirement Pension Date

Separation of service (not mandatory) after Pension Date: completion of between 8 and 20 years of creditable service.

Termination Pension Amount

Commencing at age 60, 2½% of annual salary held in the year preceding termination times years of creditable service or refund of contributions, or for persons terminating on or after July 1, 1987, 2½% of annual salary held on the last day of service times years of credible service, whichever is greater.

Pension Increase

Non-Disabled

3% increase of the original pension amount after attainment of age 55 for each year elapsed since retirement, followed by an additional 3% of the original pension amount on each January thereafter. Effective July 1, 1993, 3% of the amount of pension payable at the time of the increase including increases previously granted, rather than 3% of the originally granted pension amount.

Disabled

3% increase of the original pension amount after attainment of age 60 for each year he or she received pension payments, followed by an additional 3% of the original pension amount in each January thereafter.

Pension to Survivors (3-112)

Death of Retired Member

100% of pension amount to surviving spouse (or dependent children).

Death While in Service (Not in line of duty)

With 20 years of creditable service, the pension amount earned as of the date of death.

With between 10 and 20 years of creditable service, 50% of the salary attached to the rank for the year prior to the date of death.

Death in Line of Duty

100% of the salary attached to the rank for the last day of service year prior to date of death.

Minimum Survivor Pension

\$1,000 per month to all surviving spouses.

SUMMARY OF PRINCIPAL PLAN PROVISIONS (Continued)

Disability Pension - Line of Duty (3-114.1)

Eligibility

Suspension or retirement from police service due to sickness, accident or injury while on duty.

Pension

Greater of 65% of salary attached to rank at date of suspension or retirement and the retirement pension available. Minimum \$1,000 per month.

Disability Pension - Not on Duty (3-114.2)

Eligibility

Suspension or retirement from police service for any cause other than while on duty.

Pension

50% of salary attached to rank at date of suspension or retirement. Minimum \$1,000 per month.

Other Provisions

Marriage After Retirement (3-120)

No surviving spouse benefit available.

Refund (3-124)

At death prior to completion of 10 years of service, contributions are returned without interest to widow.

At termination with less than 20 years of service, contributions are refunded upon request.

Contributions by Police Officers (3-125.1)

Beginning January 1, 2001, 9.91% of salary including longevity, but excluding overtime pay, holiday pay, bonus pay, merit pay or other cash benefit.

GLOSSARY

Actuarial Accrued Liability See Entry Age Normal Cost Method

Actuarial Assumptions

The economic and demographic predictions used to estimate the present value of the plan's future obligations. They include estimates of investment earnings, salary increases, mortality, withdrawal and other related items. The *Actuarial Assumptions* are used in connection with the *Actuarial Cost Method* to allocate plan costs over the working lifetimes of plan participants.

Actuarial Cost Method

The method used to allocate the projected obligations of the plan over the working lifetimes of the plan participants. Also referred to as an *Actuarial Funding Method*.

Actuarial Funding Method

See Actuarial Cost Method

Actuarial Gain (Loss)

The excess of the actual *Unfunded Actuarial Accrued Liability* over the expected *Unfunded Actuarial Accrued Liability* represents an *Actuarial Loss*. If the expected *Unfunded Actuarial Accrued Liability* is greater, an *Actuarial Gain* has occurred.

Actuarial Present Value

The value of an amount or series of amounts payable or receivable at various times, determined as of a given date by the application of a particular set of Actuarial Assumptions.

Actuarial Value of Assets

The asset value derived by using the plan's Asset Valuation Method.

Asset Valuation Method

A valuation method designed to smooth random fluctuations in asset values. The objective underlying the use of an asset valuation method is to provide for the long-term stability of employer contributions.

Employee Retirement Income Security Act of 1974 (ERISA)

The primary federal legislative act establishing funding, participation, vesting, benefit accrual, reporting, and disclosure standards for pension and welfare plans.

GLOSSARY (Continued)

Entry Age Normal Cost Method

One of the standard actuarial funding methods in which the *Present Value of Projected Plan Benefits* of each individual included in the *Actuarial Valuation* is allocated on a level basis over the earnings of the individual between entry age and assumed exit age(s). The portion of this *Actuarial Present Value* allocated to a valuation year is called the *Normal Cost*. The portion of this *Actuarial Present Value* not provided for at a valuation date by the *Actuarial Present Value* of future *Normal Costs* is called the *Actuarial Accrued Liability*.

Normal Cost

The portion of the *Present Value of Projected Plan Benefits* that is allocated to a particular plan year by the *Actuarial Cost Method*. See *Entry Age Normal Cost Method* for a description of the Normal Cost under the *Entry Age Normal Cost Method*.

Present Value of Future Normal Costs

The present value of future normal costs determined based on the Actuarial Cost Method for the plan. Under the Entry Age Normal Cost Method, this amount is equal to the excess of the Present Value of Projected Plan Benefits over the sum of the Actuarial Value of Assets and Unfunded Actuarial Accrued Liability.

Present Value of Projected Plan Benefits

The present value of future plan benefits reflecting projected credited service and salaries. The present value is determined based on the plan's actuarial assumptions.

Statement No. 25 of the Governmental Accounting Standards Board (GASB No. 25)

The accounting statement that established the standards of financial accounting and reporting for the financial statements of defined benefit pension plans.

Unfunded Actuarial Accrued Liability

The excess of the Actuarial Accrued Liability over the Actuarial Value of Assets.